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**Diomede**

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(54) **ORALLY ADMINISTERING A FLAVORED MEDICATION**

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(52) **U.S. Cl.** ..... **604/82**

(58) **Field of Classification Search** ..... 604/82-92  
See application file for complete search history.

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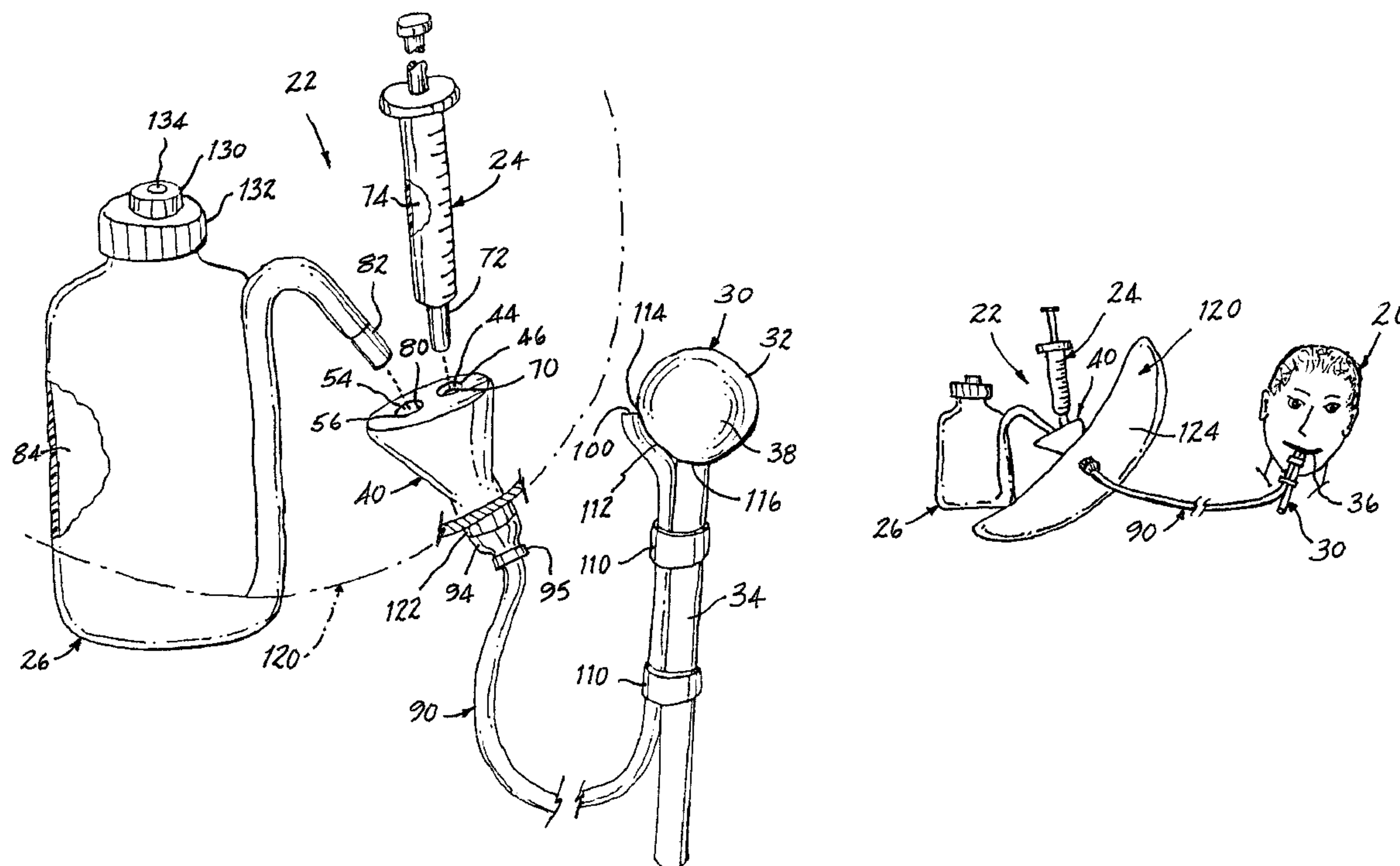
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(57) **ABSTRACT**

Apparatus and method are disclosed for orally administering to a recipient a medication and a flavor, in a liquid form, for rendering the medication more palatable to the recipient. First and second liquid dispensers are operated manually, independent of one another, either simultaneously or in a selected sequence, and are arranged to advance the medication and the flavor into a conduit for passage through a common outlet to an administering head placed in the recipient's mouth so as to administer the medication and the flavor to the recipient's mouth. The apparatus includes a liquefying device which enables the apparatus to be used for the administration of a medication initially supplied in a non-liquid form.

**16 Claims, 4 Drawing Sheets**



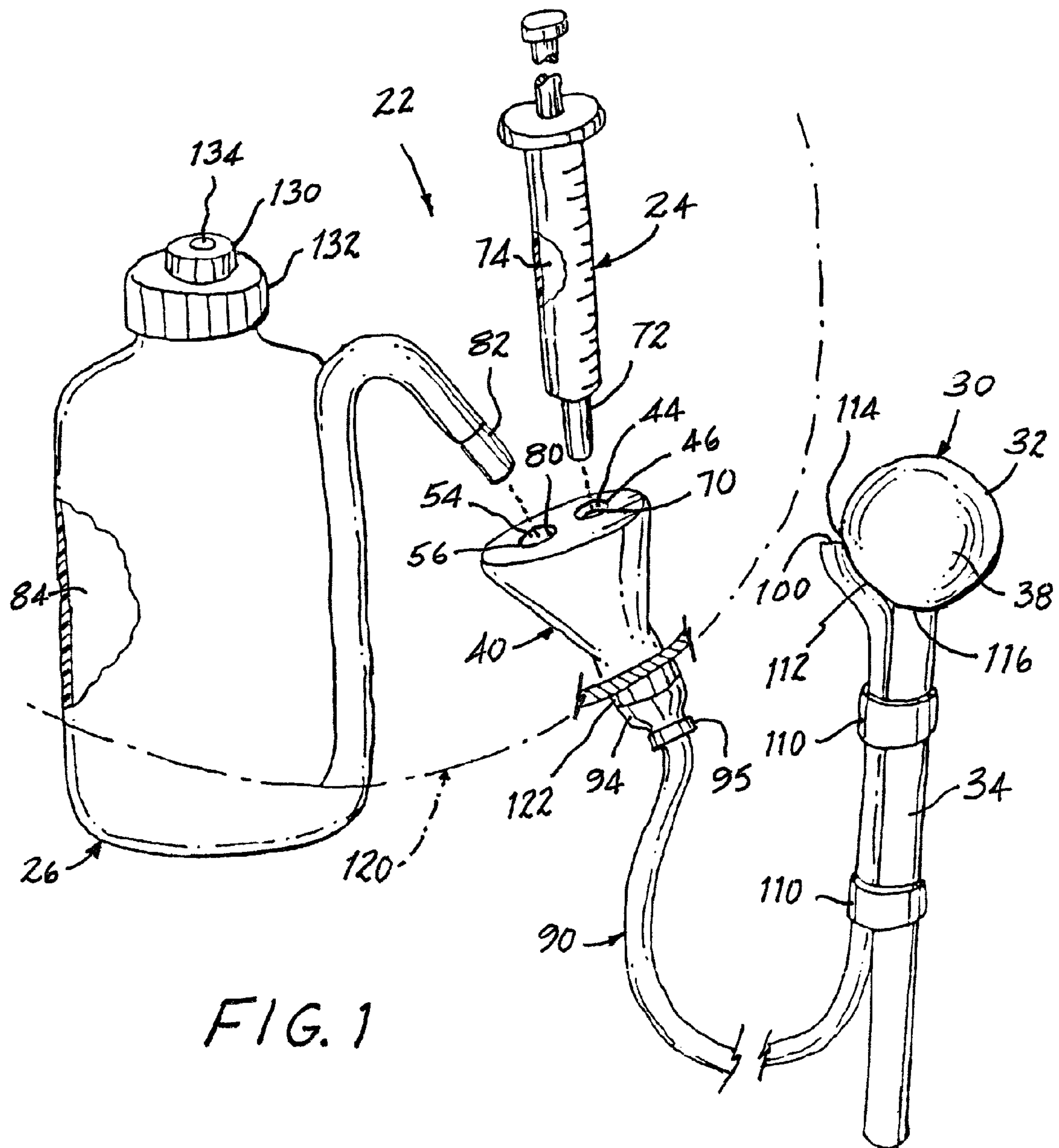


FIG. 1

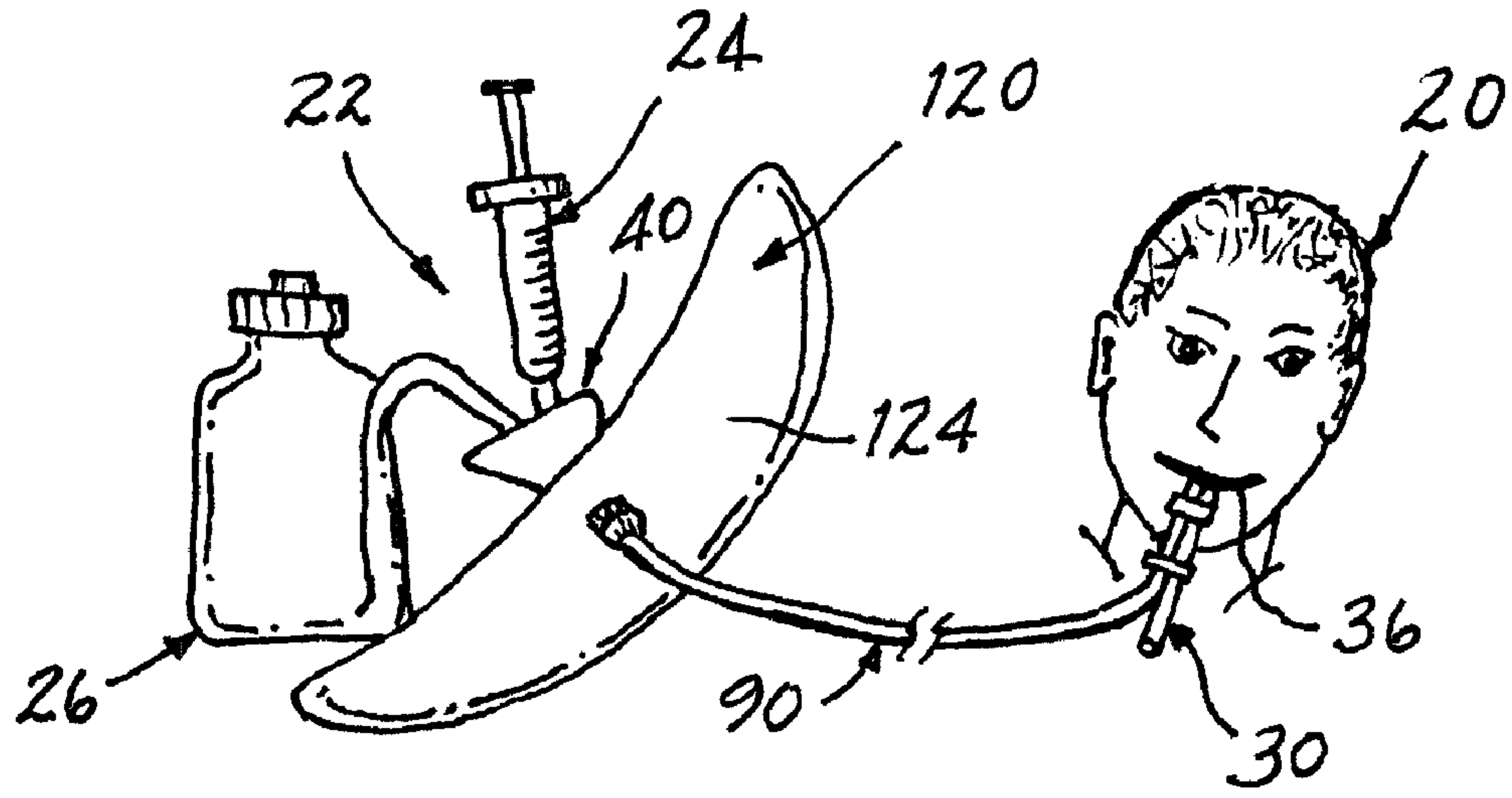


FIG. 2

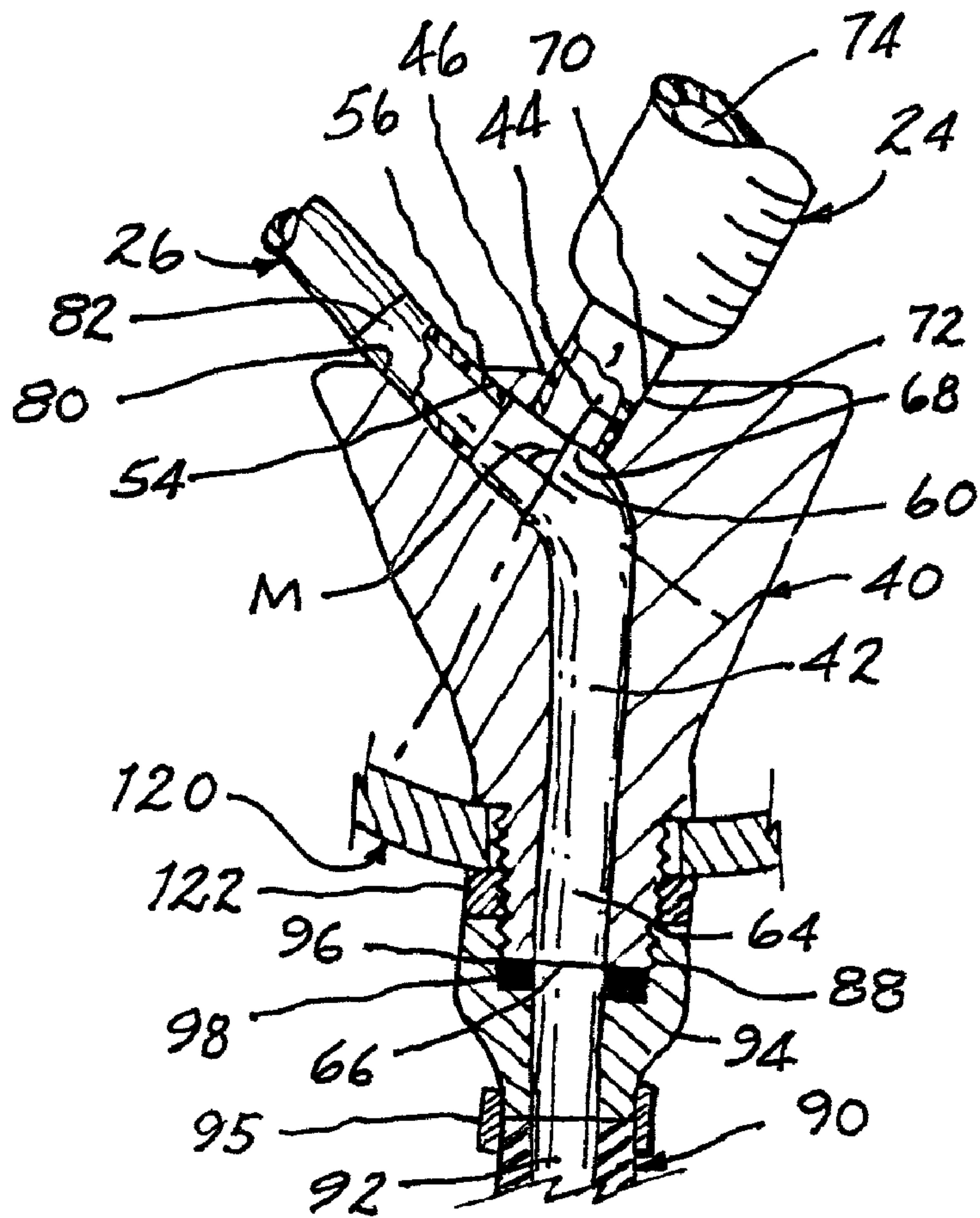


FIG. 3



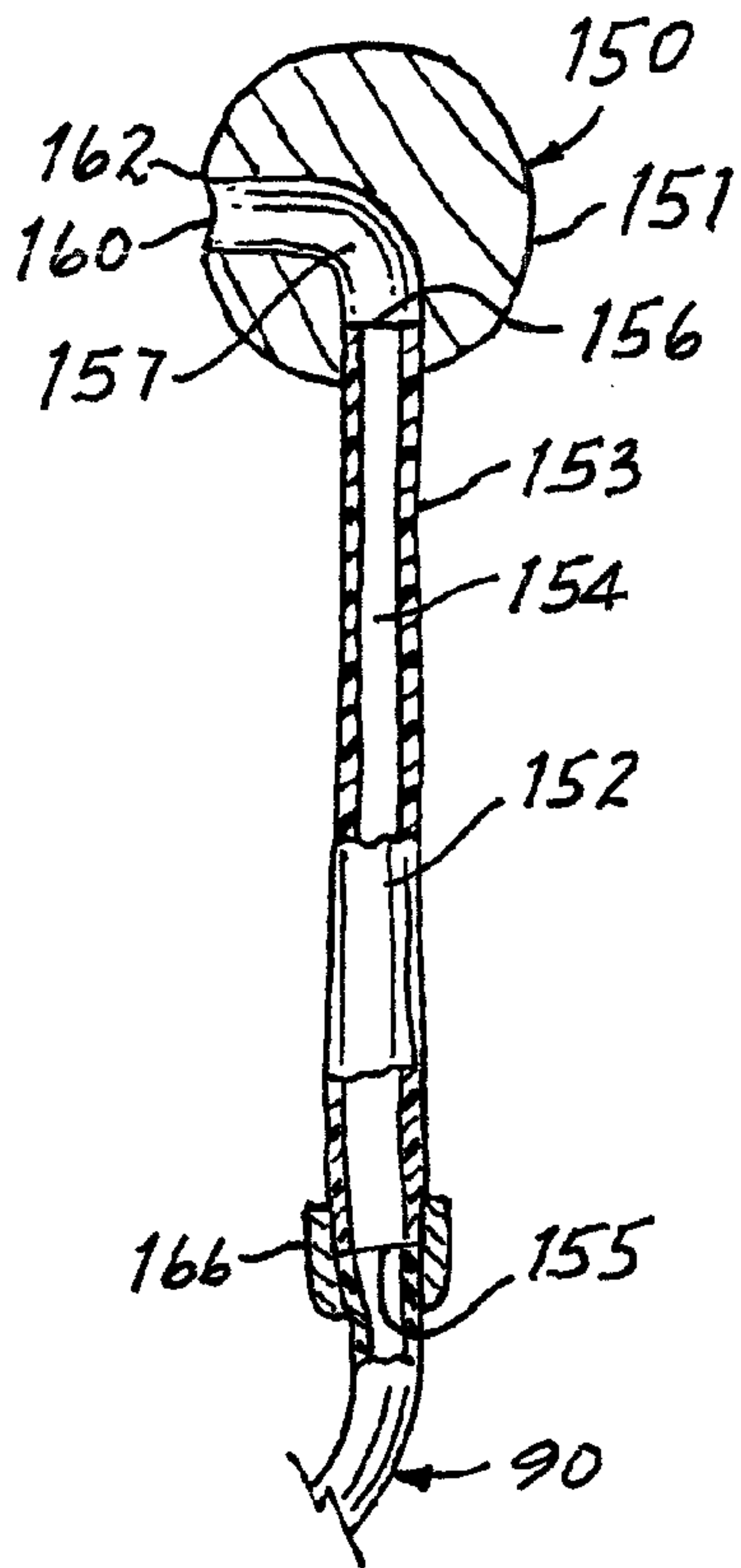


FIG. 6

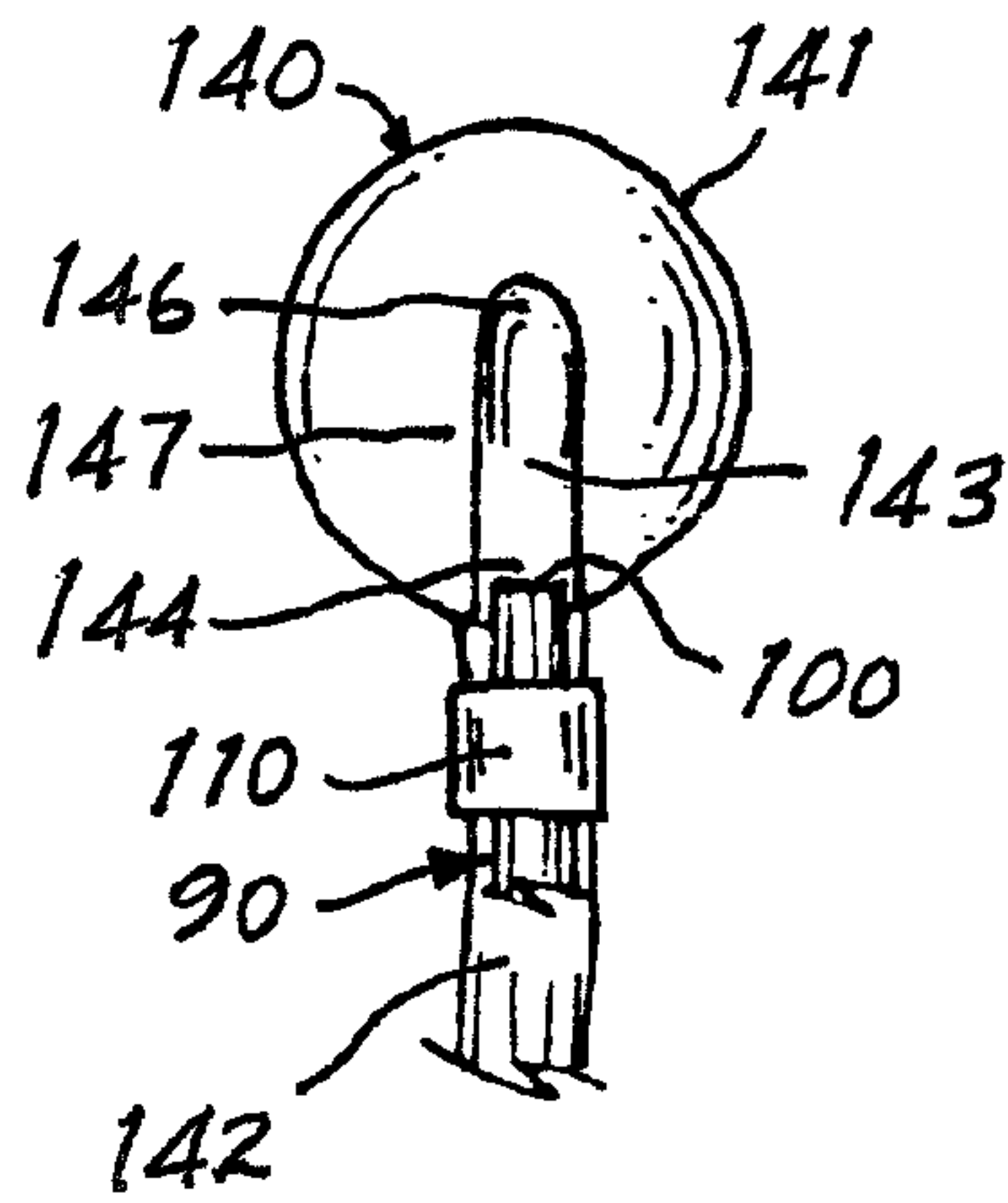


FIG. 5

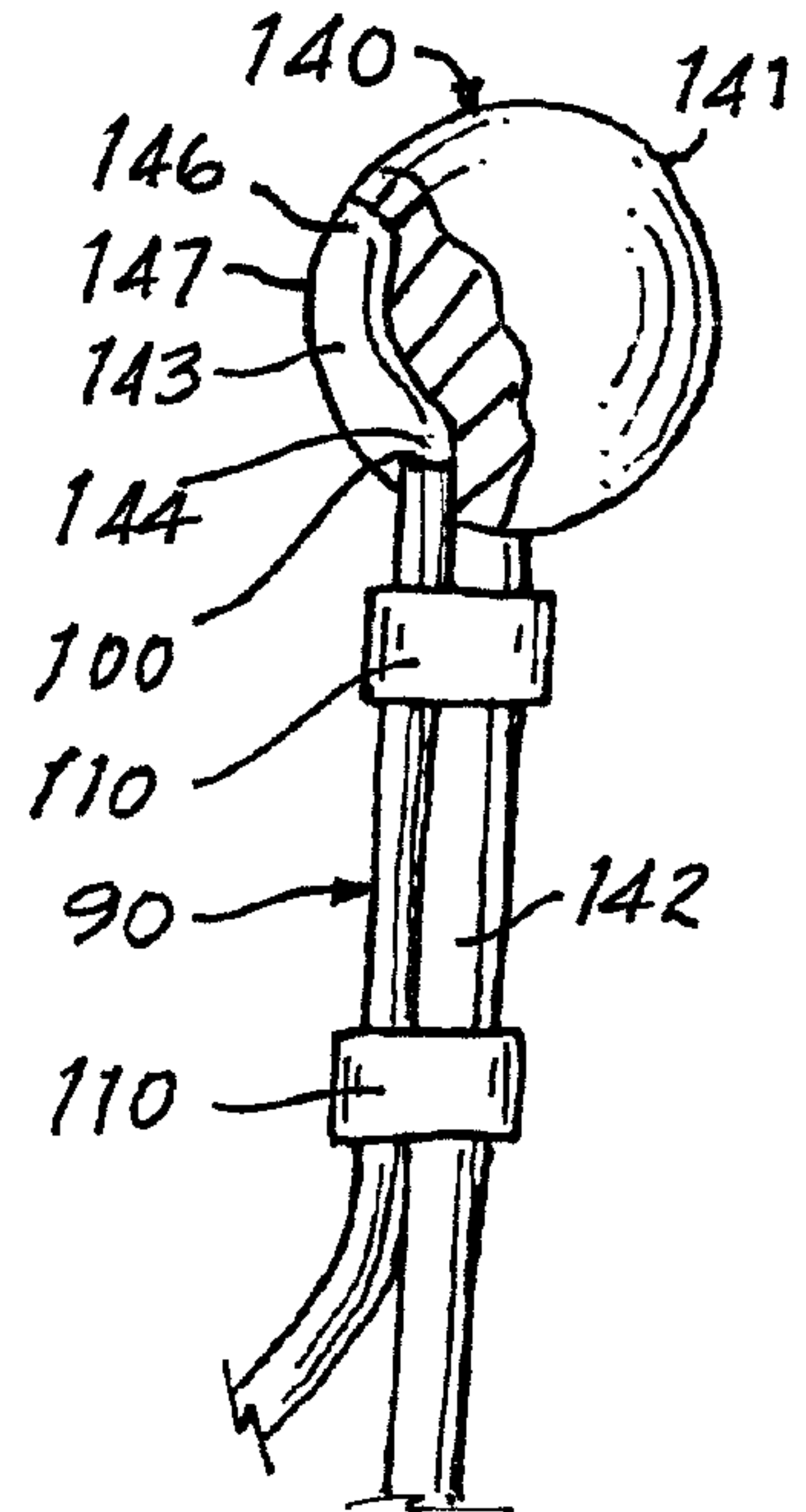


FIG. 4

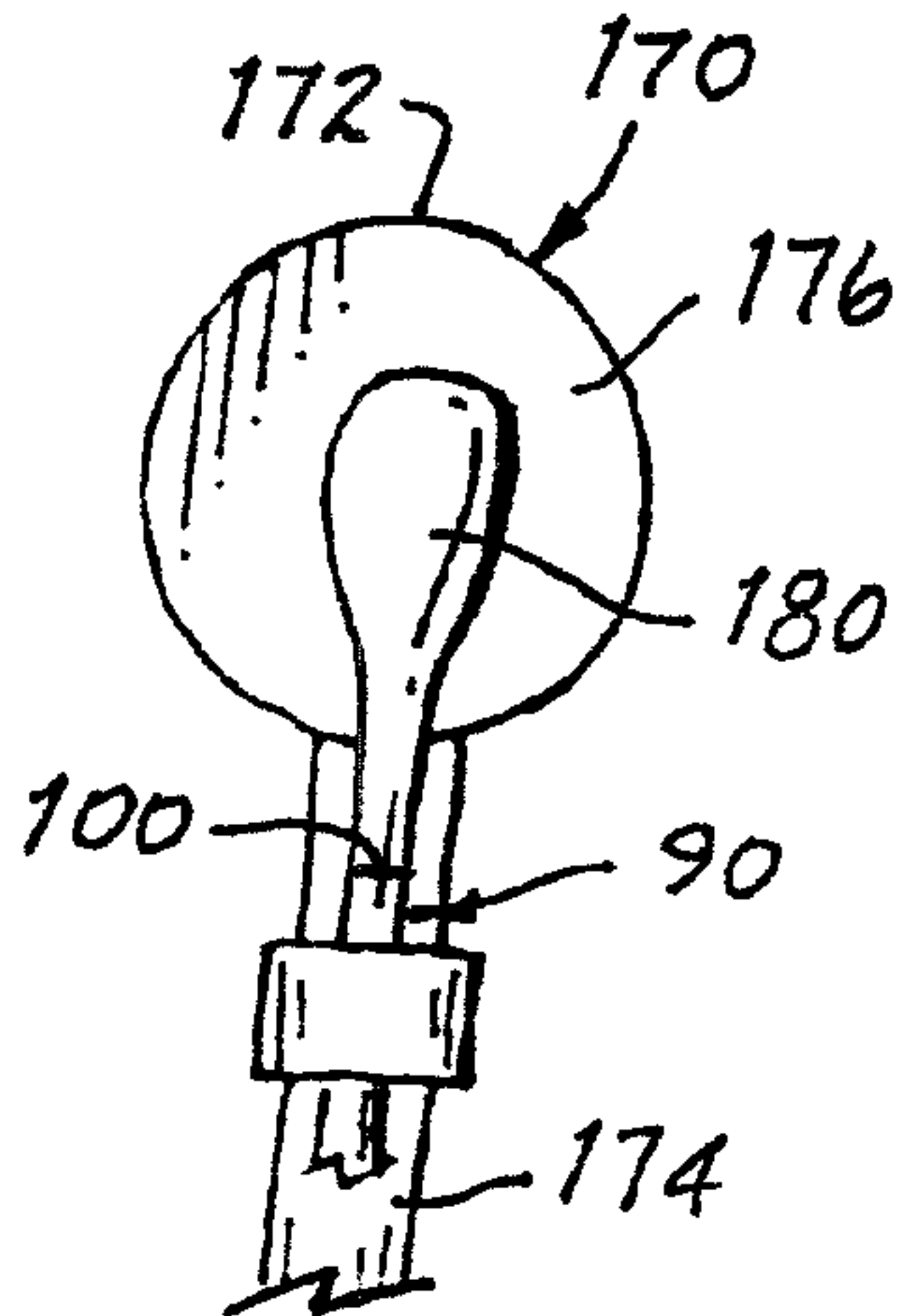


FIG. 8

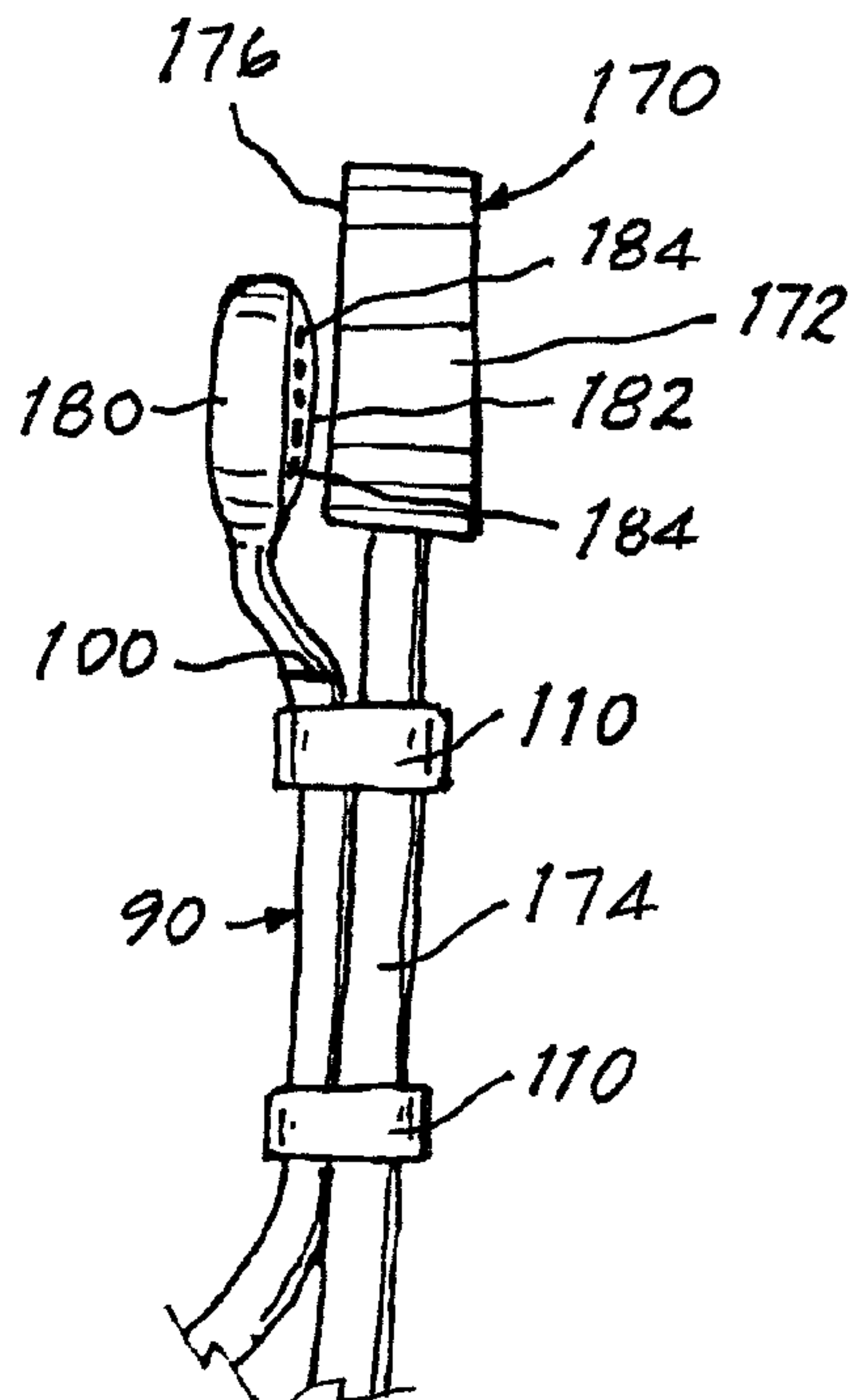


FIG. 7

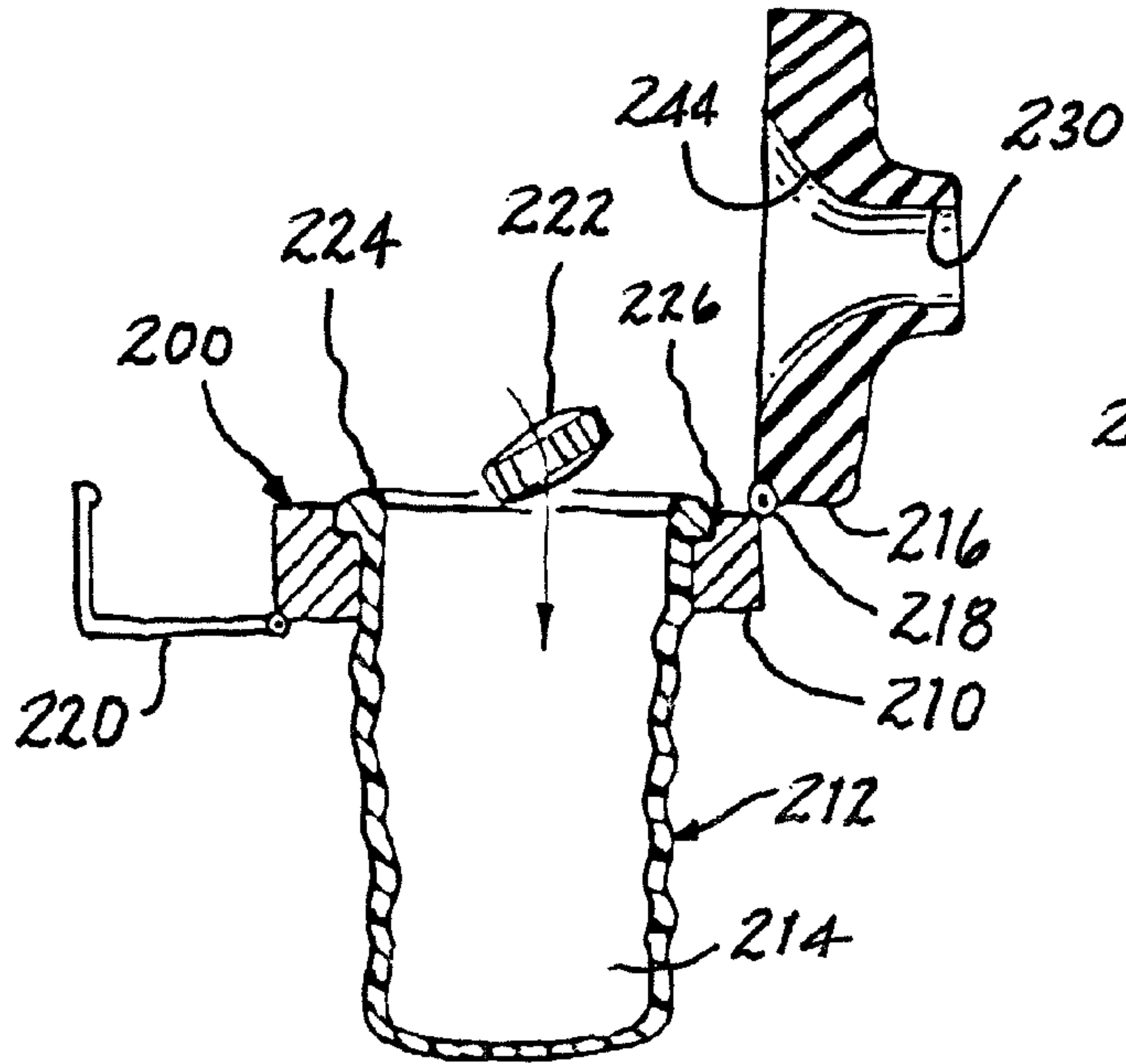


FIG. 9

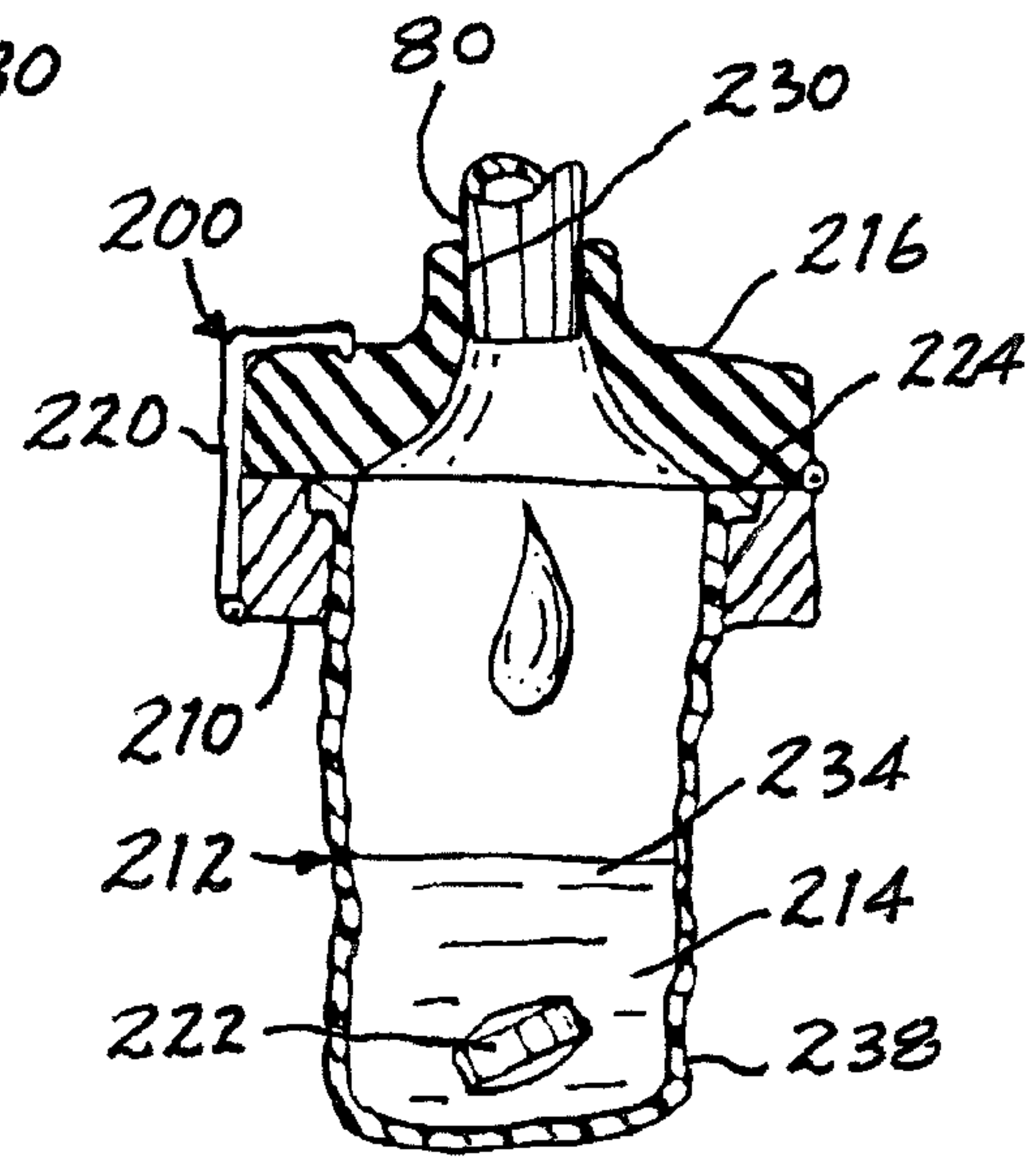


FIG. 10

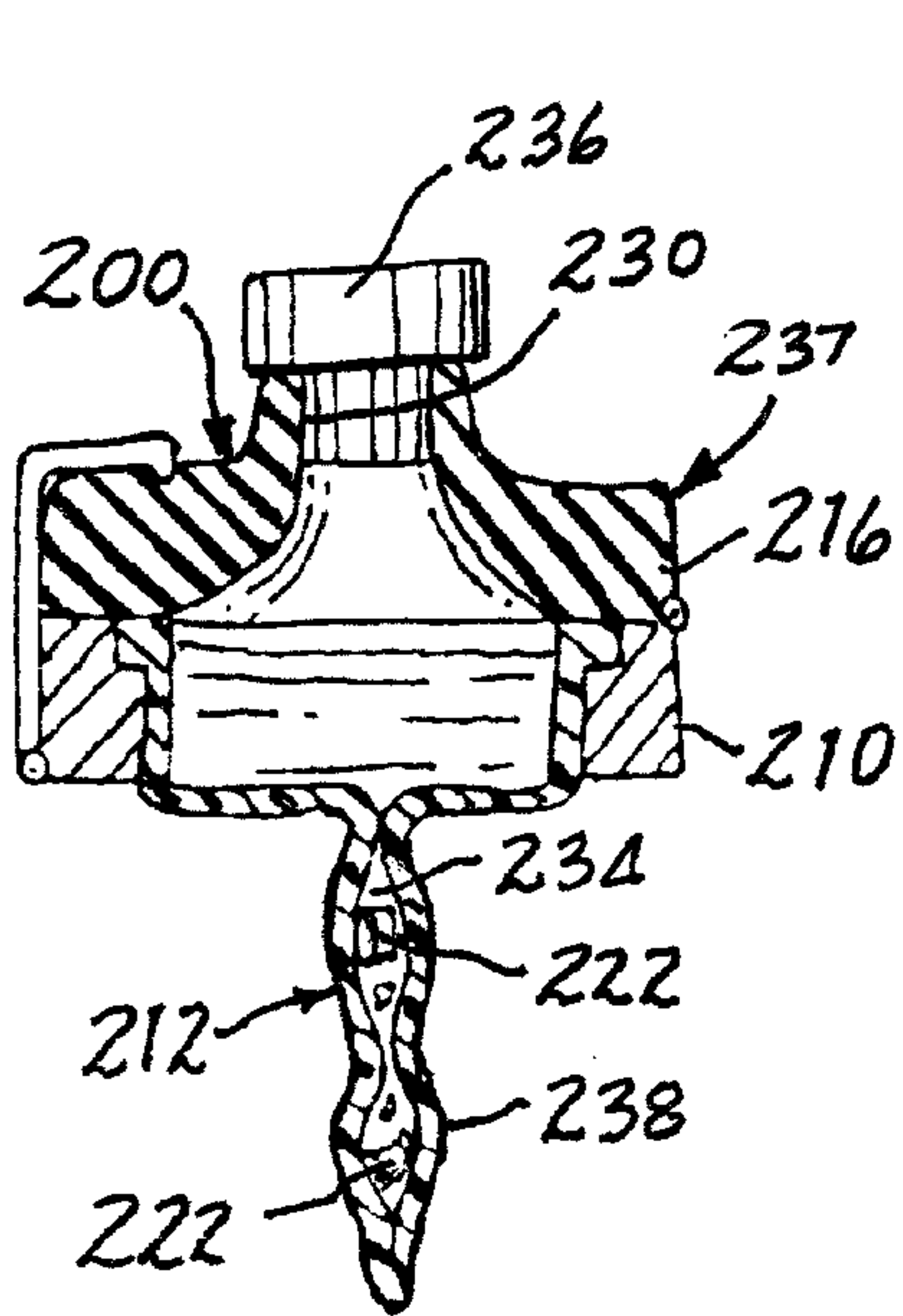


FIG. 11

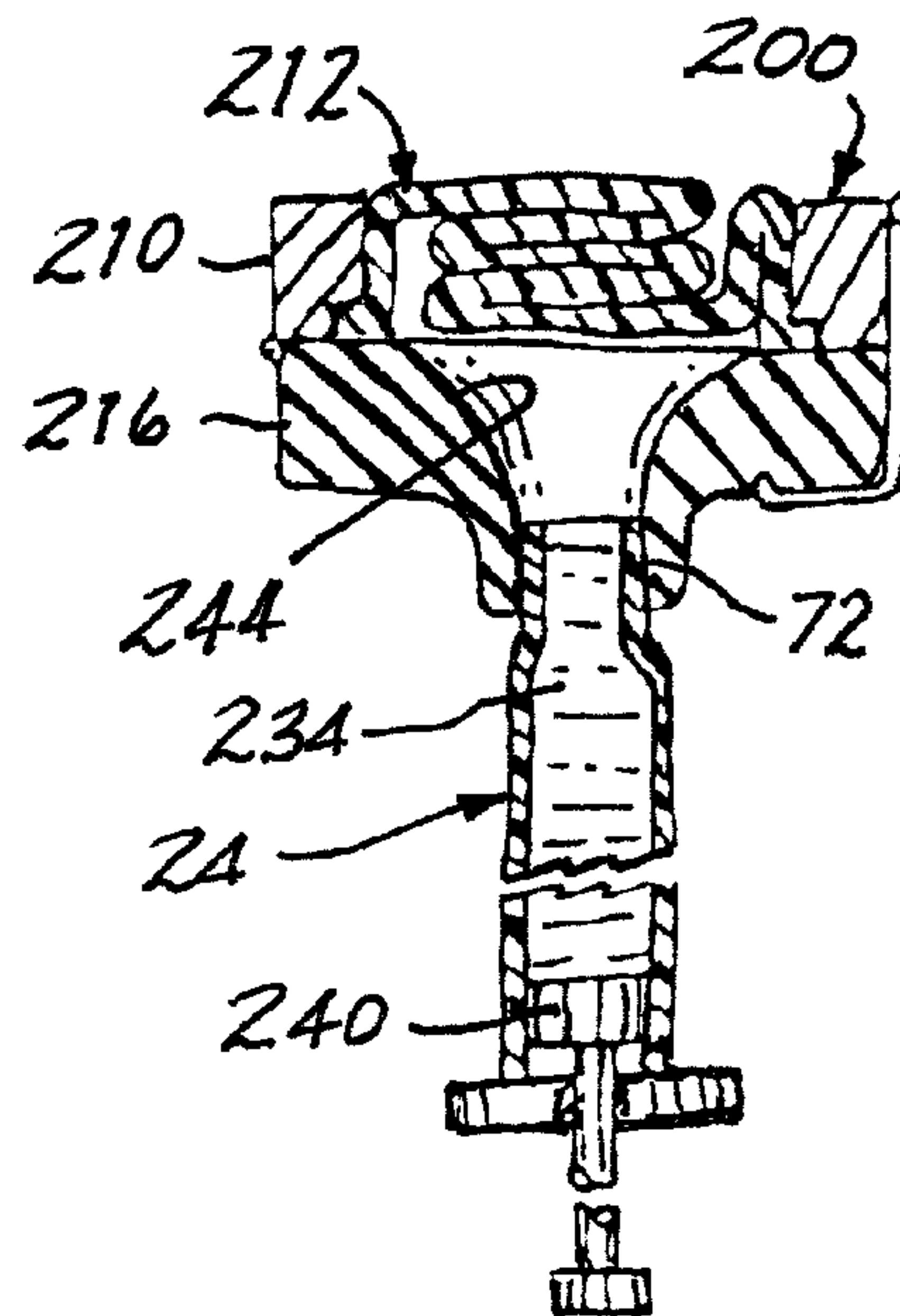


FIG. 12



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## ORALLY ADMINISTERING A FLAVORED MEDICATION

The present invention relates generally to administering medication orally and pertains, more specifically, to apparatus and method for orally administering to a recipient a medication and a flavor for rendering the medication more palatable to the recipient.

The oral administration of medication often meets with resistance from a recipient because of the basically unpalatable taste of the medication. Especially where a medication such as, for example, a liquid antibiotic is to be administered orally to a child, it becomes difficult, if not impossible, to do so quickly and with the assurance that a requisite dosage has, in fact, been administered. Parents often are faced with using a spoon, an oral syringe or an oral dropper to feed a medication to a child who will resist admitting the medication, let alone swallowing a full dose, because of the unpleasant taste of the medication. The end result is a messy and unpleasant experience for both the child and the parents, and uncertainty concerning whether or not the child has received the required amount of medication. Even doctors or nurses who must administer a prescribed dose of medication to a child, either in a hospital setting or in a pediatrician's office, are met with such resistance as to reduce to guessing about the amount of medication actually received by the child. Force feeding a child a foul tasting medication only exacerbates the problem and ends in a bad experience for all involved and, most of all, for the child.

In order to alleviate the problem, medications have been flavored to render them more palatable. Usually, a selected flavor is added to a medication upon order, since it is not feasible to stock already flavored medications, due to the wide variety of flavors available, as well as to the necessity for maintaining accuracy in measuring a requisite dose of medication. In most instances, parents will have a pharmacist prepare a prescribed medication with a suitable flavor by adding a selected flavor to the medication upon order, accepting the added time and expense in favor of convenience and reduced resistance from the patient. Thus, while the flavoring of a medication for oral administration, and especially for administration to a child, has been shown to be effective, there is a need for a system that enables the oral administration of a flavored medication with greater convenience, ease and economy.

The present invention enables the oral administration of a flavored medication, and especially to a child, in a manner which avoids the problems outlined above. As such, the present invention attains several objects and advantages, some of which are summarized as follows: Provides apparatus and method for orally administering a medication and flavoring quickly and easily; assures that the recipient of a flavored oral medication receives an accurate measure of medication so as to make certain that a prescribed dose actually has been administered; avoids conflicts between patients and persons administering oral medication, and especially between children and parents, and concomitant bad experiences otherwise associated with taking an oral medication; provides increased safety, both from the standpoint of physical injury as well as the administration of a precisely measured dose of oral medication; enables increased economy as well as convenience in providing a readily-administered flavored oral medication; establishes an essentially pleasant experience which will encourage a child to accept the oral administration of a medication with a certain amount of enjoyment; avoids the use of potentially inaccurate and messy implements in the administration of an oral medication by

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providing a simple and effective apparatus; provides an apparatus for administering an oral medication, capable of exemplary performance over an extended service life.

The above objects and advantages, as well as further objects and advantages, are attained by the present invention which may be described briefly as an apparatus for orally administering to a recipient a medication and a flavor, in a liquid form, for rendering the medication more palatable to the recipient, the apparatus comprising: a first manual pressure-operated liquid dispenser for containing the medication; a second manual pressure-operated liquid dispenser for containing the flavor; an administering head for placement within a recipient's mouth; a conduit having a first inlet, a second inlet, and a common outlet communicating with both the first inlet and the second inlet; and a coupling arrangement coupling the first manual pressure-operated liquid dispenser with the first inlet, the second manual pressure-operated liquid dispenser with the second inlet, and the common outlet in juxtaposition with the administering head; the first manual pressure-operated liquid dispenser and the second manual pressure-operated liquid dispenser being arranged for selective operation independent of one another to advance the medication and the flavor into the conduit for passage through the common outlet to the administering head and to administer the medication and the flavor to the recipient's mouth.

In addition, the present invention provides a method for orally administering a medication and a flavor, in a liquid form, to a recipient for rendering the medication more palatable, the method comprising: containing the medication in a first manual pressure-operated liquid dispenser; containing the flavor in a second manual pressure-operated liquid dispenser; coupling the first dispenser and the second dispenser with a conduit having a first inlet, a second inlet, and a common outlet communicating with both the first inlet and the second inlet, such that the first dispenser is coupled with the first inlet and the second dispenser is coupled with the second inlet; juxtaposing the common outlet with an administering head; placing the administering head in the recipient's mouth; and selectively manually operating the first dispenser and the second dispenser independent of one another to advance the medication and the flavor into the conduit for passage through the common outlet to the administering head, thereby administering the medication and the flavor to the recipient's mouth.

Further, the present invention includes a liquefying device for use in an apparatus for orally administering to a recipient a medication and a flavor, in a liquid form, for rendering the medication more palatable to the recipient, the liquefying device comprising: a receptacle for receiving a medication in a non-liquid form to be dispersed within the flavor, the receptacle having a manually collapsible wall; a base for carrying the receptacle while the wall is in a first configuration for receiving medication in a non-liquid form; a closure for closing the receptacle to contain the medication within the wall of the receptacle while the receptacle is moved manually into a second configuration wherein the receptacle is kneaded manually to crush the non-liquid medication; and a coupling arrangement for coupling a dispenser with the receptacle to transfer the medication into the dispenser.

The invention will be understood more fully, while still further objects and advantages will become apparent, in the following detailed description of preferred embodiments of the invention illustrated in the accompanying drawing, in which:

FIG. 1 is a partially diagrammatic, exploded pictorial view of an apparatus constructed in accordance with the present invention;



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FIG. 2 is a pictorial view, reduced in size, of the apparatus, configured for, and during the oral administration of a flavored medication;

FIG. 3 is an enlarged, fragmentary longitudinal cross-sectional view of a portion of the apparatus;

FIG. 4 is a front elevational view, partially sectioned, showing an alternate embodiment of a component part of the apparatus;

FIG. 5 is a fragmentary side elevational view of the embodiment of FIG. 4;

FIG. 6 is a front elevational view, shown largely in cross-section, showing another embodiment of a component part of the apparatus;

FIG. 7 is a front elevational view showing still another embodiment of a component part of the invention;

FIG. 8 is a fragmentary side elevational view of the embodiment of FIG. 7; and

FIGS. 9 through 12 are longitudinal cross-sectional views of another component part of the apparatus showing consecutive stages in the operation of the component part of the apparatus.

Referring now to the drawing, and especially to FIGS. 1 and 2 thereof, apparatus for orally administering a medication and a flavor for rendering the medication more palatable to a recipient 20 is shown at 22 and is seen to include a first manual pressure-operated liquid dispenser in the form of a syringe 24 for containing the medication, such as an antibiotic in liquid form, and a second manual pressure-operated liquid dispenser in the form of a squeeze bottle 26 for containing a flavor, such as a pleasant tasting fruit juice, namely, apple juice, grape juice or the like, or any one of a number of commercially available flavors currently offered for the flavoring of medications.

An administration device is shown in the form of a lollipop-like implement 30 which provides an administering head in the form of head 32, and a handle 34 projecting from the head 32 for enabling grasping, either by the recipient 20 of the medication or by a person (not shown) administering the medication. In the preferred embodiment, head 32 is constructed of an edible material, such as a candy product, which encourages the recipient 20 to admit the head 32 into the recipient's mouth 36, as seen in FIG. 2, and to maintain the head 32 in the mouth 36 during administration of the medication, as will be described below. Head 32 includes an external surface 38 configured for placement in the mouth 36 with convenience and ease, and for retention in the mouth 38 with comfort and safety, the preferred configuration being spherical, as shown.

Turning now to FIG. 3, as well as with reference to FIGS. 1 and 2, a manifold 40 includes a conduit 42 having a first passage 44 communicating with a corresponding first inlet 46 and a second passage 54 communicating with a corresponding second inlet 56. The passages 44 and 54 merge at a merging location 60, wherein the passages 44 and 54 merge at a merging angle M, to communicate with a third passage 64 leading to a corresponding outlet 66. A coupling arrangement couples the syringe 24 and the squeeze bottle 26 with the manifold 40 to enable the contents of the syringe 24 to be introduced into first passage 44, through an egress opening 68, and the contents of the squeeze bottle 26 to be introduced into second passage 54. To that end, first passage 44 includes a receptacle 70 at inlet 46 for receiving a tubular projection 72 of the syringe 24 in a retention fit that couples the syringe 24 with the manifold 40 and establishes communication between the interior 74 of syringe 24 and the merging location 60, with the egress opening 68 placed in close proximity with the merging location 60. In a like construction, second passage 54

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includes a receptacle 80 at inlet 56 for receiving a nozzle-like projection 82 of the squeeze bottle 26 in a retention fit that establishes communication between the interior 84 of squeeze bottle 26 and the merging location 60. Manifold 40 includes a threaded nipple 88 adjacent outlet 66 of passage 64, and a flexible tube 90 having an internal passage 92 is coupled with nipple 88, by means of a threaded collar 94 affixed to tube 90 by a sleeve 95 and threaded onto threaded nipple 88. Upon securing tube 90 to manifold 40, internal passage 92 is joined with third passage 64, with the joint 96 between outlet 66 and internal passage 92 sealed by a washer 98 such that the conduit established by passages 44, 54 and 64 is continued by passage 92 through tube 90 to a common outlet 100.

Flexible tube 90 is extended to implement 30 and is affixed to handle 34 by means of securing members shown in the form of clips 110 which are selectively engaged with the handle 34 to secure tube 90 to handle 34, as shown in FIGS. 1 and 2. In the illustrated preferred arrangement, tube 90 is extended along a side area 112 of external surface 38 of head 32, following the contour configuration of the external surface 38 to locate the common outlet 100 at the side 114 of the head 32, the handle 34 projecting from an end area 116 of the surface 38. In this manner, implement 30 can be chosen from a variety of standard commercially available lollipops, if desired. With the tube 90 affixed to handle 34, as shown, a measured volume of medication placed in the interior 74 of syringe 24, and a flavor carried within the interior 84 of squeeze bottle 26, head 32 is placed within the mouth 36 of the recipient 20, thereby locating common outlet 100 toward the side of the recipient's mouth 36. In order to alleviate any apprehension a child may have upon encountering apparatus 22, a mask 120 is secured to manifold 40, as by a retainer 122 threaded onto nipple 88, and extends over the manifold 40, between the manifold 40 and the implement 30, to hide the manifold 40, the syringe 24 and the squeeze bottle 26 from the child's view. Mask 120 can be decorated, along face 124 of the mask 120, with any number of entertaining characters or scenes which can appeal to a child.

Administration of the medication then can be accomplished in any one of alternate sequences of operation of the components of apparatus 22. Thus, operating apparatus 22 to actuate syringe 24 manually to pass medication through passage 44 to merging location 60, while simultaneously manually squeezing squeeze bottle 26 to pass flavor through passage 54 to merging location 60, will result in a mixture of medication and flavor, created at the merging location 60, to be passed through outlet 66, thence through tube 90 to common outlet 100, where the mixture will enter the recipient's mouth 36, flavored so as to be accepted readily by the recipient 20. With the common outlet 100 placed adjacent the side of the recipient's mouth 36, the mixture is dispensed at a location found to be most effective in administering oral medication.

As best seen in FIG. 3, the merging angle M between the passages 44 and 54, together with the close proximity of the tubular projection 72 of syringe 24 will tend to purge passage 44 of all medication as flavor continues to flow through merging location 60. In the preferred construction, merging angle M is no more than 90°. In this manner, the flow of flavor through merging location 60 and to common outlet 100 will tend to deliver the full measure of medication to the recipient 20. However, as an alternate procedure, squeezing of the squeeze bottle 26 is continued, subsequent to completion of the actuation of syringe 24 to expel the full measured volume of medication in the dose to be administered, to assure that the full measured volume of medication is drawn from syringe 24



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and carried to the recipient **20**. Preferably, tube **90** is constructed of a transparent or semi-transparent material so that a visual determination is available to confirm completion of the flow of medication to the common outlet **100**.

In another alternate sequence of operations, the squeeze bottle **26** is squeezed initially, prior to actuation of syringe **24**, to introduce flavor to the recipient **20** prior to administering any medication, so as to encourage acceptance of a flow through tube **90** and common outlet **100** and enable a concomitant smooth transition as medication subsequently is introduced into the stream of flavor by the subsequent actuation of syringe **24**. Here again, the flow of flavor from squeeze bottle **26** can be continued until all medication is purged from the conduit established by passages **44**, **54**, **64** and **92**, and is delivered to the recipient **20**.

The provision of a squeeze bottle **26** having a relatively large capacity, well in excess of any measured volume of medication placed in syringe **24**, facilitates any of the sequences of operation set forth above. Moreover, the large volume of squeeze bottle **26** enables the convenient storage of flavor for multiple sessions of oral administration of medication, with concomitant economy. In order to preclude any contamination of the flavor stored in squeeze bottle **26** by medication which might be drawn back into squeeze bottle **26** at the conclusion of a session of oral administration, a vent **130** is placed in cap **132** of squeeze bottle **26**, and a check valve **134** within vent **130** assures that upon squeezing of squeeze bottle **26**, vent **130** will be closed and flavor will be driven through projection **82** to passage **54** of manifold **40**. However, upon release of the squeeze which drives flavor from the squeeze bottle **26** to manifold **40**, check valve **134** will open to enable ambient air to pass into the interior of squeeze bottle **26**, thereby precluding any flow back from manifold **40** into squeeze bottle **26**.

Tube **90** is detached readily from handle **34** of implement **30** merely by opening clips **110**, and is detached selectively from manifold **40** by releasing collar **94** from nipple **88**. In this manner, tube **90**, as well as manifold **40**, can be cleaned easily for subsequent reuse. However, tube **90** is quite inexpensive and therefore readily expendable, and can be replaced economically for each use, thereby maintaining sanitary conditions and promoting safety.

Referring now to FIGS. **4** and **5**, an alternate implement **140** is constructed similar to implement **30** in that implement **140** includes a head **141** and a handle **142** projecting from the head **141** in a lollipop-like configuration. As before, tube **90** is affixed to handle **142** by clips **110** to place common outlet **100** in juxtaposition with head **141**. However, in order to facilitate the conduct of liquid from tube **90** to the side of a recipient's mouth, a channel **143** is provided in head **141** and is configured along an arcuate shape to direct medication and flavor from an entrance **144**, juxtaposed with the common outlet **100**, to emanate along the length of channel **143**, as well as from an exit **146** at a side area **147** of the head **141**.

In another alternate embodiment, illustrated in FIG. **6**, implement **30** is replaced by implement **150**, also having an overall lollipop-like configuration. A head **151** has a generally spherical configuration, as do heads **32** and **141**, and a handle **152** projects from head **151**. In the present embodiment, however, handle **152** is in the form of a shaft **153** having an internal duct **154** which extends upwardly from a first duct end **155** to a second duct end **156**. An internal passage **157** extends into head **151** and is directed from an ingress port **159** to an egress port **160** placed at the side **162** of head **151**. Tube **90**, then, is coupled with handle **152** at the first duct end **155**, as by a coupling **166**. Medication and flavor are passed

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through duct **154** in handle **152** to head **151** to pass through internal passage **157** and emanate from head **151** at egress port **160**.

An alternate embodiment is illustrated in FIGS. **7** and **8** in the form of implement **170** having a head **172** and a handle **174** projecting from the head **172** to establish a lollipop-like configuration. In this instance, head **172** has a disk-like configuration with a side face **176**. As before, tube **90** is secured to handle **174** with clips **110**. A distributor **180** is affixed to tube **90**, at common outlet **100**, and has a distributor face **182** placed so as to confront side face **176** of head **172**. Distributor face **182** is provided with a plurality of apertures **184** so that medication and flavor supplied through tube **90** to distributor **180** is disbursed along side face **176** for delivery to a recipient.

Turning now to FIGS. **9** through **12**, in order to accommodate medication furnished in a form other than a liquid form, as described above, that is, a non-liquid medication which may be supplied in the form of a tablet, or in a powdered form, perhaps derived from a capsule, apparatus **30** is provided with a liquefying device **200** for facilitating the charging of syringe **24** with a volume of liquid containing a prescribed dose of medication. Liquefying device **200** includes a base **210** within which there is mounted a bag-like receptacle **212** providing a reservoir **214**. A cover **216** is hinged to the base **210** by means of a hinge **218**, and a latch **220** is mounted upon the base **210** for pivotal movement, as will now be described. In the preferred construction, cover **216** is constructed of a resilient elastomeric material. With the liquefying device **200** in an open configuration, as shown in FIG. **9**, medication, here shown in the non-liquid form of a tablet **222**, is placed in receptacle **212**. Once the tablet **222** is placed within reservoir **214**, cover **216** is moved into the closed position illustrated in FIG. **10**, and is latched closed by means of latch **220**. At the same time, a bead **224** around the perimeter **226** of receptacle **212** seals the reservoir **214** against leakage along the perimeter **226**.

Then, projection **82** of squeeze bottle **26** is engaged with a cylindrical seat **230** extending through the cover **216**, the resilient characteristics of the material of cover **216** establishing a sealed connection between projection **82** and seat **230**. Once the projection **82** is fully seated, a liquid flavor **234** is introduced into reservoir **214** by squeezing the squeeze bottle **26**. With a volume of flavor **234** in reservoir **214**, a plug **236** is seated and secured in place within seat **230**, as seen in FIG. **11**, and seat **230** is sealed so that, together with cover **216**, a closure **237** is completed which closes receptacle **212**. Receptacle **212** has a highly flexible wall **238** and, with the tablet **222** and flavor **234** in the reservoir **214**, wall **238** is collapsed and receptacle **212** is kneaded, as illustrated in FIG. **11**, to crush the tablet **222** and dissolve, or at least disperse, the medication in the liquid flavor **234**. In an alternate procedure, tablet **222** can be inserted into receptacle **212** and crushed prior to placement of flavor **234** into reservoir **214**, with flavor **234** then being added into reservoir **214** subsequent to crushing of tablet **222**. Such a procedure facilitates the crushing and dispersion of a harder, more dense tablet **222**.

Once the medication is fully dissolved or dispersed, syringe **24** is coupled with liquefying device **200** by seating tubular projection **72** within the cylindrical seat **230**, as seen in FIG. **12**. With syringe **24** fully coupled with liquefying device **200**, and with reservoir **214** containing the flavor **234** with the dissolved or dispersed medication, the coupled liquefying device **200** and syringe **24** are inverted, and plunger **240** of syringe **24** is retracted, as illustrated in FIG. **12**, such that the contents of reservoir **214** of receptacle **212** flow into syringe **24**, assisted by gravity and by a funnel-like configuration along interior surface **244** of cover **216**, thereby effectively



charging syringe **24** with a volume of flavor **234** containing the prescribed dose of medication. Subsequently, receptacle **212**, which is inexpensive and therefore expendable, merely is removed from base **210** and is discarded, to be replaced by a fresh receptacle **212**, thereby avoiding any deleterious consequences which could be associated with reusing a previously-used receptacle **212** upon subsequently charging a syringe **24** for another session of administering an oral medication.

While in the illustrated preferred embodiments, manifold **40** is shown with a construction which accommodates one syringe **24**, and one squeeze bottle **26**, it will be apparent that manifold **40** can be replaced with a similar manifold in which multiple passages can accommodate either multiple syringes for the administration of multiple medications during a single session of administering oral medication, or multiple squeeze bottles for dispensing multiple flavors, or multiple syringes and multiple squeeze bottles providing a high degree of flexibility when administering flavored oral medication.

It will be apparent that the present invention attains all of the objectives and advantages summarized above, namely: Provides apparatus and method for orally administering a medication and flavoring quickly and easily; assures that the recipient of a flavored oral medication receives an accurate measure of medication so as to make certain that a prescribed dose actually has been administered; avoids conflicts between patients and persons administering oral medication, and especially between children and parents, and concomitant bad experiences otherwise associated with taking an oral medication; provides increased safety, both from the standpoint of physical injury as well as the administration of a precisely measured dose of oral medication; enables increased economy as well as convenience in providing a readily-administered flavored oral medication; establishes an essentially pleasant experience which will encourage a child to accept the oral administration of a medication with a certain amount of enjoyment; avoids the use of potentially inaccurate and messy implements in the administration of an oral medication by providing a simple and effective apparatus; provides an apparatus for administering an oral medication, capable of exemplary performance over an extended service life.

It is to be understood that the above detailed description of preferred embodiments of the invention is provided by way of example only. Various details of design, construction and procedure may be modified without departing from the true spirit and scope of the invention, as set forth in the appended claims.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

**1.** Apparatus for orally administering to a recipient a medication and a flavor, in a liquid form, for rendering the medication more palatable to the recipient, the apparatus comprising:

- a first manual pressure-operated liquid dispenser for containing the medication;
- a second manual pressure-operated liquid dispenser for containing the flavor;
- an administering head for placement within a recipient's mouth;
- a conduit having a first inlet, a second inlet, and a common outlet communicating with both the first inlet and the second inlet; and
- a coupling arrangement coupling the first manual pressure-operated liquid dispenser with the first inlet, the second

manual pressure-operated liquid dispenser with the second inlet, and the common outlet in juxtaposition with the administering head;

the first manual pressure-operated liquid dispenser and the second manual pressure-operated liquid dispenser being arranged for selective operation independent of one another to advance the medication and the flavor into the conduit for passage through the common outlet to the administering head and to administer the medication and the flavor to the recipient's mouth;

the administering head comprising an edible material.

**2.** The apparatus of claim **1** wherein the edible material comprises a candy product.

**3.** The apparatus of claim **1** including a handle affixed to the administering head, the handle projecting from the administering head for enabling grasping to hold the administering head in place within the recipient's mouth during administering of the medication and the flavor.

**4.** The apparatus of claim **3** including an internal passage within the administering head, the internal passage extending between an entry port and an egress port, and the common outlet communicates with the entry port.

**5.** The apparatus of claim **4** wherein:

the administering head includes an external surface having an end area and a side area, and the entry port is placed adjacent the end area;

the handle comprises a shaft having an internal duct extending between a first duct end and a second duct end; and

the common outlet communicates with the internal duct adjacent the first duct end, and the internal duct communicates with the internal passage adjacent the second duct end, such that upon administering the medication and the flavor, the medication and the flavor will pass through the internal duct and then through the internal passage to enter the recipient's mouth adjacent the egress port.

**6.** The apparatus of claim **5** wherein the egress port is placed adjacent the side area.

**7.** The apparatus of claim **3** wherein the administering head includes an external surface and the apparatus includes a securing member securing the conduit to the handle with the common outlet placed in juxtaposition with the external surface of the administering head.

**8.** The apparatus of claim **7** wherein the external surface has an end area and a side area, the handle projects from the end area and the common outlet is placed adjacent the side area.

**9.** The apparatus of claim **7** including a channel extending along the external surface of the administering head, the channel having an entrance, and an exit spaced from the entrance along the external surface of the administering head, and the common outlet is placed in juxtaposition with the entrance of the channel.

**10.** The apparatus of claim **9** wherein the external surface has an end area and a side area, the handle projects from the end area and the exit of the channel is placed adjacent the side area.

**11.** The apparatus of claim **1** wherein:

the first manual pressure-operated liquid dispenser comprises a syringe having a capacity for containing a measured volume of the medication; and

the second manual pressure-operated liquid dispenser comprises a squeeze bottle having a capacity for containing a volume of flavor in excess of the measured volume of medication.



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12. The apparatus of claim 11 wherein the conduit includes a manifold communicating with the first and second inlets, the manifold having a first passage communicating with the first inlet, a second passage communicating with the second inlet, the first and second passages merging at a merging location into a common passage communicating with the common outlet, the first and second passages making a merging angle at the merging location such that any residual medication in the first passage will be drawn into the common passage in response to a flow of flavor from the second passage into the common passage.

13. The apparatus of claim 12 wherein the syringe includes an egress opening through which the medication is dispensed, and the manifold includes a receptacle in the first passage for receiving the syringe with the egress opening placed in close proximity with the merging location.

14. Apparatus for orally administering to a recipient a medication and a flavor, in a liquid form, for rendering the medication more palatable to the recipient, the apparatus comprising:

- a first manual pressure-operated liquid dispenser for containing the medication;
- a second manual pressure-operated liquid dispenser for containing the flavor;
- an administering head for placement within a recipient's mouth;
- a conduit having a first inlet, a second inlet, and a common outlet communicating with both the first inlet and the second inlet;
- a coupling arrangement coupling the first manual pressure-operated liquid dispenser with the first inlet, the second manual pressure-operated liquid dispenser with the second inlet, and the common outlet in juxtaposition with the administering head;
- the first manual pressure-operated liquid dispenser and the second manual pressure-operated liquid dispenser being arranged for selective operation independent of one another to advance the medication and the flavor into the conduit for passage through the common outlet to the administering head and to administer the medication and the flavor to the recipient's mouth; and
- a mask placed between the common outlet and the first and second dispensers for blocking the first and second dispensers from view by the recipient during administering the medication and the flavor.

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15. Apparatus for orally administering to a recipient a medication and a flavor, in a liquid form, for rendering the medication more palatable to the recipient, the apparatus comprising:

- a first manual pressure-operated liquid dispenser for containing the medication;
- a second manual pressure-operated liquid dispenser for containing the flavor;
- an administering head for placement within a recipient's mouth;
- a conduit having a first inlet, a second inlet, and a common outlet communicating with both the first inlet and the second inlet;
- a coupling arrangement coupling the first manual pressure-operated liquid dispenser with the first inlet, the second manual pressure-operated liquid dispenser with the second inlet, and the common outlet in juxtaposition with the administering head;
- the first manual pressure-operated liquid dispenser and the second manual pressure-operated liquid dispenser being arranged for selective operation independent of one another to advance the medication and the flavor into the conduit for passage through the common outlet to the administering head and to administer the medication and the flavor to the recipient's mouth; and
- a liquefying device comprising:
  - a receptacle for receiving a medication in a non-liquid form to be dispersed within the flavor, the receptacle having a manually collapsible wall;
  - a base for carrying the receptacle while the wall is in a first configuration for receiving medication in a non-liquid form;
  - a closure for closing the receptacle to contain the medication within the receptacle while the wall of the receptacle is moved manually into a second configuration wherein the receptacle is kneaded manually to crush the non-liquid medication; and
  - a coupling arrangement for coupling the second dispenser with the receptacle to introduce flavor into the receptacle to disperse the medication within the flavor, and for coupling the first dispenser with the receptacle to transfer the flavor and the medication dispersed within the flavor into the first dispenser.

16. The apparatus of claim 15 wherein the receptacle is selectively detachable from the base for removal and disposal subsequent to transfer of the medication and the flavor into the first dispenser.

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